## **DECLARATION AND POWER** FOR PATENT APPLICATION

10008270-1

ATTORNEY

As a below named inventor, I hereby declare that:

ź,

My residence/post office address and citizenship are as stated below next to my name;

t and sole inventor lift only one name is listed below) or an original first

| believe I am the origin<br>and joint inventor (if plu<br>a patent is sought on th  | ıral nam  | tion entitled:   |   |  |  |
|--|---|--|---|--|--|
| ·  |   |  | ES AND ASSOCIATED   | METHODS  |  |
| the specification of whi   |   |  |   |  | · · · · · · · · · · · · · · · · · · ·  |
| •  |   |  |   |  | nlication  |
|  |   |  | plication No. or PCT I  |  |  |
|  |   |  | nded on   |  |  |
| hereby state that I had not  | s amend<br>which is<br>Claim of I<br>y benefits<br>pelow and  | led by any amendmes<br>s material to patental<br>Foreign Priority<br>under Title 35, United S<br>have also identified belov  | ent(s) referred to above bility as defined in 37 tates Code Section 119 of vany foreign application for   | ve. I acknowle<br>CFR 1.56.<br>any foreign applic  | edge the duty to   |
| COUNTRY  |   | APPLICATION NUMBER   | DATE FILED  | PRIORITY CLAIME  | UNDER 36 U.S.C. 119  |
| 可 COUNTRY  |   |  |   | YES:   | NO:  |
|  |   |  |   | YES:   | NO:  |
| Prévisional Application  |   |  |   |  |  |
| l bereby claim the benefit ur<br>below:  | nder Title  | 35, United States Code S   | section 119(e) of any Unite   | d States provision   | al application(s) listed   |
| E  |   | APPLICATION NUMBER   | FILING DATE   |  |  |
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| U.S. Priority Claim  | nder Title  | 35, United States Code,  | Section 120 of any United   | States application   | n(s) listed below and,   |
| Priority Claim I nereby claim the benefit us interested as the subject matter manner provided by the first information as defined in Titl application and the national of  | r of each<br>t paragrap<br>le 37, Cod<br>or PCT int   | of the claims of this appl<br>h of Title 35, United Stat<br>le of Federal Regulations,<br>ernational filing date of th   | ication is not disclosed in the Code Section 112, I act Section 1.56(a) which occurs application:   | he prior United Sta<br>knowledge the dut<br>irred between the  | ites application in the<br>y to disclose material<br>filing date of the prior  |
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| POWER OF ATTORNEY: As a named inventor, I her business in the Patent and T  Customer  Send Correspondence to HEWLETT-PACKARD CO. Intellectual Property Adn P.O. Box 272400 Fort Collins, Colorado 8  I hereby declare that a made on information a with the knowledge imprisonment, or both false statements may   | r of each t paragrap le 37, Cod or PCT int reby apporrademark Number DMPANY ninistratio 80527-240 all state and bel that with the control of | of the claims of this appl h of Title 35, United Stat le of Federal Regulations, ernational filing date of th  FILING DATE  int the following attorney Office connected therewi  022879  ments made herein of lief are believed to be Ilful false statement Section 1001 of Tit ze the validity of the | restion is not disclosed in the Code Section 112, I acl Section 1.56(a) which occur is application:  STATUS  STATUS  ((s) and/or agent(s) to proth:  Place Customer Number Bar Code Label here  Direct Teleph  Thomas X 650-857-  of my own knowledge the true; and further the sand the like so make the like so make 18 of the United S | patented/pending/aband  patented/pending/aband  patented/pending/aband  patented/pending/aband  patented/pending/aband  patented/pending/aband  patented/pending/aband  patented/pending/aband  patented pending/aband  patent | nat all statements ments were made is that such willful                        |

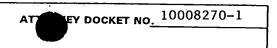
Post Office Address:

Inventor's Signature

Hewlett-Packard Co., Legal, 1501 Page Mill Rd., Palo Alto CA 94304

July 20,2001

## DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION (continued)



| Full Name of # 2 joint inventor:_     | Ming-Chien Sha  | in                                    |               | Citizenship:         | USA  |              |   |    |             |
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| Residence:                            | Saratoga, Cali  | ifornia                               |               |                      |      |              |   |    |             |
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| (M d0 -                               | 9               |                                       | 7/20          | 1/200/               |      |              |   |    |             |
| Inventor's Signature                  |                 | <del></del>                           | Date          | //-                  |      |              |   |    | <del></del> |
| /                                     |                 |                                       |               |                      |      |              |   |    |             |
| Full Name of # 3 joint inventor:      | Mehmet Sayal    |                                       |               | Citizenship:         | Turk | ey           |   |    |             |
| Residence:                            | Sunnyvale, Cal  | ifornia                               |               |                      |      |              |   |    |             |
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| Ognis                                 | >               |                                       | =             | 1/20/20              | 101  |              | -                                       |    |             |
| Inventor's Signature                  |                 |                                       | Date          |                      |      |              |   |    |             |
| 3                                     |                 |                                       |               |                      |      |              |   |    |             |
| Eull Name of # 4 joint inventor:_     |                 | ·                                     |               | Citizenship:         |      |              |   |    | _           |
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|                                       |                 |                                       |               |                      |      |              |   |    |             |
| mineuror e signature                  |                 |                                       | Date          |                      |      |              |   |    |             |
|                                       |                 |                                       |               |                      |      |              |   |    |             |
| full Name of # 5 joint inventor:<br>_ | ·               |                                       |               | Citizensh <u>ip:</u> |      |              |   |    |             |
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| Inventor's Signature                  |                 |                                       |               |                      |      |              |   |    |             |
|                                       |                 |                                       | Date          |                      |      |              |   | ·  |             |
| Full Blown of # Clinia                |                 |                                       |               |                      |      |              |   |    |             |
| Full Name of # 6 joint inventor:      |                 |                                       | ·             | Citizenship:         |      |              |   |    |             |
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| Post Office Address:                  |                 |                                       |               |                      |      |              |   |    |             |
| Inventor's Signature                  |                 |                                       | Date          |                      |      |              |   |    |             |
|                                       |                 |                                       | 2410          |                      |      |              |   |    |             |
| Full Name of # 7 joint inventor:      |                 |                                       |               | Otate 1 * ·          |      |              |   |    |             |
| Residence:                            |                 |                                       |               | Citizenship:         |      |              | <del></del>                             |    |             |
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|                                       | <del></del>     |                                       |               |                      |      |              |   |    | <del></del> |
| Inventor's Signature                  |                 |                                       | Date          |                      |      |              | <del></del>                             |    |             |
|                                       |                 |                                       |               |                      |      |              |   |    |             |
| Full Name of # 8 joint inventor:      |                 |                                       |               | Citizenship:         |      |              |   |    |             |
| Residence:                            |                 |                                       |               |                      |      |              |   |    | <del></del> |
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| _                                     |                 |                                       |               |                      |      |              |   |    |             |
| Inventor's Signature                  |                 | <del></del>                           | Date          |                      |      |              |   |    |             |

```
<?xml version="1.0" standalone="no"?>
<!DOCTYPE EXAMPLE SYSTEM "CSDL_Example.did">
<Composite-Service>
  <Meta-Model Name="Food Delivery" Version="A.01.00">
    <!-- Case packet data. These are the definitions of variables used by this composite service. -->
    <Composite-Service-Data>
       <Data-Item-Declaration Name="RestaurantName" Data-Type="STRING">
         <Value>%RestaurantName</Value>
       </Data-Item-Declaration>
       <Data-Item-Declaration Name="OrderNumber" Data-Type="INTEGER">
         <Value>%OrderNumber</Value>
       </Data-Item-Declaration>
       <Data-Item-Declaration Name="Order" Data-Type="STRING">
         <Value>%Order</Value>
       </Data-Item-Declaration>
       <Data-Item-Declaration Name="CustomerCCN" Data-Type="STRING">
         <Value>%CustomerCCN</Value>
       </Data-Item-Declaration>
       <Data-Item-Declaration Name="DeliveryTime" Data-Type="STRING">
         <Value>%DeliveryTime</Value>
       </Data-Item-Declaration>
       <Data-Item-Declaration Name="DeliveryAddress" Data-Type="STRING">
         <Value>%DeliveryAddress</Value>
       </Data-Item-Declaration>
       <Data-Item-Declaration Name="CustomerName" Data-Type="STRING">
         <Value>%CustomerName</Value>
       </Data-Item-Declaration>
       <Data-Item-Declaration Name="Confirmation" Data-Type="INTEGER">
         <Value>%Confirmation</Value>
       </Data-Item-Declaration>
       <Data-Item-Declaration Name="RestaurantCCN" Data-Type="STRING">
         <Value>%RestaurantCCN</Value>
       </Data-Item-Declaration>
       <Data-Item-Declaration Name="CCExpiry" Data-Type="STRING">
          <Value>%CCExpiry</Value>
       </Data-Item-Declaration>
       <Data-Item-Declaration Name="BillAmount" Data-Type="REAL">
          <Value>%CustomerName</Value>
       </Data-Item-Declaration>
       < -- The following two variables are used in Search-Recipe. Search-Recipe is used in E-speak
           to look up for services. -->
        <Data-Item-Declaration Name="mycondition" Data-Type="STRING">
          <Value>%mycondition</Value>
        </Data-Item-Declaration>
        <Data-Item-Declaration Name="mypreference" Data-Type="STRING">
          <Value>%mypreference</Value>
        </Data-Item-Declaration>
        <Data-Item-Declaration Name="localhost" Data-Type="STRING">
          <Value>%localhost</Value>
        </Data-Item-Declaration>
        <!-- Input variables -->
        <Input>
          <Data-Item Name="CustomerCCN" />
          <Data-Item Name="CCExpiry" />
          <Data-Item Name="Order" />
          <Data-Item Name="DeliveryTime" />
          <Data-Item Name="DeliveryAddress" />
          <Data-Item Name="mycondition" />
          <Data-Item Name="mypreference" />
          <Data-Item Name="localhost"/>
        </input>
        <!-- Output variables -->
        <Output>
                                                 Page 1 of 4
           <Data-Item Name="Confirmation" />
```

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<Data-Item Name="RestaurantName" />
    <Data-Item Name="OrderNumber" />
     <Data-Item Name="BillAmount" />
  </Output>
  <!-- Local variables: used only within the composite service -->
  <Local>
     <Data-Item Name="RestaurantCCN" />
    <Data-Item Name="CustomerName" />
  </Local>
  </Composite-Service-Data>
<!-- Service-Flow-Structure describes the service flow and consists of route nodes.
   method nodes, and arcs -->
<Service-Flow-Structure>
  <!-- If the user's credit card was confirmed, the service continues to with delivery
      schedule; otherwise the service aborts. The condition below checks the value
      of the Confirmation variable in order to figure out whether the credit card was
      confirmed. -->
  <Route-Node Name="Check Passed" Description="Is CCN confirmed" Type="XOR-SPLIT">
     <Rule>
       <Condition>Confirmation &It;&gt; 0</Condition>
          <Action>Goto Node Check And Join</Action>
          <Alternative-Action>Goto Node Abort</Alternative-Action>
     </Rule>
 </Route-Node>
 <!-- This is a join node used for joining two separate branches of the service flow, after the
    user's credit card is confirmed and the restaurant is selected. -->
 <Route-Node Name="And Join" Description="Join node" Type="AND-JOIN">
     <Rule>
       <Condition>TRUE</Condition>
          <Action>Goto Node Wheel Delivery</Action>
     </Rule>
 </Route-Node>
 <!-- This service carries out the confirmation of user's credit card. It takes one output, namely
     the credit card number, and returns a confirmation number. If the credit check fails, then
     the return value equals to zero -->
 <Service-Node Name="Check Credit" Description="Confirm credit card number">
   <!-- Search-recipe is used for service lookup in E-speak. It is used in the composite service</p>
        in order to lookup the individual E-speak services that constitute the composite service.
        There are three workflow variables embedded inside the Search-Recipe: localhost,
        mycondition, and mypreference. These variables are replaced by their current values
        by the Gateway during the execution of the composite service. The localhost variable
        contains the URI of the local host machine of the user who is using the composite service.
        The mycondition variable contains the search criteria. The mypreference variable contains
        the sorting criteria in case multiple candidate services are found by the search recipe. All
        those three variables are input to the composite service by the user. This search recipe
        returns the first service that satisfies the given condition and is ranked the first after sorting
        preference is applied. -->
   <Search-Recipe>
      <?xml version="1.0">
      <header xmlns="www.e-speak.net/Schema/E-speak.header.xsd">
        <communication>
           <to>es://%localhost/WebAccess/FindService</to>
           <from>es://%localhost/WAUser1</from>
        </communication>
      <esquery xmlns="www.e-speak.net/Schema/E-speak.query.xsd">
        <from>src="es:%localhost"/>
        <result>$serviceinfo</result>
        <where>%mycondition</where>
        preference>%mypreference</preference></preference>
         <!-- Arbitration is fixed to only one cardinality since we want only one result -->
         <arbitration>
           <operator>first</operator>
           <cardinality>1</cardinality>
                                              Page 2 of 4
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</arbitration>
          </esquery>
        </Search-Recipe>
        <!-- The following method confirms the user's credit card. -->
        <Method-Node Name="Check_CCN_Node" Description="Confirm CCN">
          <Method-Name>CheckCCN</Method-Name>
            <Method-Input>
               <Value>%CustomerCCN</Value>
            </Method-Input>
            <Method-Output>
              <Var-Mapping FLOW-VAR="Confirmation" />
            </Method-Output>
        </Method-Node>
        <!-- Example certificate: client's certificate is used -->
        <Certificate Type="USER" />
        <!-- Skipped the optional Service-Exception-Handling element -->
     </Service-Node>
     <!-- This service performs the restaurant selection. It takes two inputs: user order and
         delivery time. It returns the name of the selected restaurant. It consists of only one method
         which performs the restaurant selection. -->
     <Service-Node Name="Restaurant Selection" Description="Select a restaurant">
        <Search-Recipe>
          <!-- Search recipe is the same as that of Check Credit node -->
        </Search-Recipe>
        <Method-Node Name="Select_Restaurant_Node" Description="Select Restaurant">
          <Method-Name>SelectRestaurant</Method-Name>
             <Method-Input>
                  <Input-Var-Mapping FLOW-VAR="Order" Method-Var="p0">
                  <Input-Var-Mapping FLOW-VAR="DeliveryTimer" Method-Var="p1">
</Method-Input>
             <Method-Output>
               <Var-Mapping FLOW-VAR="RestaurantName" />
             </Method-Output>
         </Method-Node>
         <!-- Skipped the optional Certificate and Service-Exception-Handling elements -->
     </Service-Node>
     <!-- The Wheel Delivery service consists of two methods. Therefore, it contains a
         Method-Flow-Structure. The first method orders the food and the second one
         Charges service fee to the restaurant. -->
     <Service-Node Name="Wheel Delivery" Description="Order Food and Get Payment">
        <Search-Recipe>
          <!-- Search recipe is the same as that of Check Credit node -->
        </Search-Recipe>
        <Method-Flow-Structure>
          <!-- This method orders the food from the selected restaurant. It takes four inputs: restaurant
              name, order, delivery time and address. An E-speak service method returns only one
              output. However, two output values are expected from this method: order number and
              bill amount (how much to charge the user). The Var-Mapping tags also include
              Conversion-Rule attributes which describe how to extract two expected outputs from the
              method's single output value. -->
          <Method-Node Name="Order_Food" Description="Order Food">
             <Method-Name>OrderFood</Method-Name>
            <Method-Input>
               <Value>%RestaurantName</Value>
               <Value>%Order</Value>
               <Value>%DeliveryTime</Value>
               <Value>%DeliveryAddress</Value>
             </Method-Input>
             <!-- XQL is used for extracting two output values from a single method output in the following
                 Var-Mapping tags. -->
             <Method-Output>
               <Var-Mapping FLOW-VAR="OrderNumber" Conversion-Rule="OrderNumber/Orderresult[0]</p>
                  Rule-Type="XQL" />
               <Var-Mapping FLOW-VAR="BillAmount" Conversion-Rule="BillAmount/Orderresult[1]</p>
                  Rule-Type="XQL" />
             </Method-Output>
                                                 Page 3 of 4
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</Method-Node>
                                                                                                  HP docket 10008270-1
           <Method-Node Name="Get_Payment" Description="Get payment from the restaurant">
             <!-- This method charges a service fee to the selected restaurant. It takes two inputs:
                  order number and restaurant's credit card number (or account number). It does not
                 return any output since a confirmation of the restaurant's account or credit card
                 is not required. -->
             <Method-Name>GetPayment</Method-Name>
             <Method-Input>
                <Value>%OrderNumber</Value>
                <Value>%RestaurantCCN</Value>
             </Method-Input>
             <!-- No method output exists for this method. Skipping Method-Output element -->
           </Method-Node>
           <!-- The following tags describe the arcs inside the service node's Method-Flow-Structure -->
           <Arc Type="Forward" Source="Start" Destination="Order_Food" />
           <Arc Type="Forward" Source="Order_Food" Destination="Get_Payment" />
           <Arc Type="Forward" Source="Get_Payment" Destination="Stop" />
        </Method-Flow-Structure>
        <!-- Skipped the optional Certificate and Service-Exception-Handling elements -->
      </Service-Node>
      <!-- This service charges the bill amount, which was returned from a previous method call,
          to the user's credit card. The service consists of a single method which takes two inputs:
          bill amount and the user's credit card number. No output is required from that method. -->
      <Service-Node Name="Credit Card" Description="Charge the customer credit card">
        <Search-Recipe>
           <!-- Search recipe is the same as that of Check Credit node -->
        </Search-Recipe>
        <Method-Node Name="Credit_Card_Node" Description="Charge credit card">
           <Method-Name>CreditCard</Method-Name>
             <Method-Input>
                <Value>%BillAmount</Value>
                <Value>%CustomerCCN</Value>
             </Method-Input>
             <!-- No method output exists for this method. Skipping Method-Output element -->
        <!-- Skipped the optional Certificate and Service-Exception-Handling elements -->
      </Service-Node>
      <!--The following arcs describe the service flow among the routing and service nodes of
          the composite service. Note that no start, stop and complete nodes are defined previously
          within the Service-Flow-Structure. Virtual references to Start, Stop and Complete nodes
          are used only in the arcs in order to indicate the beginning and end points of the composite
          service. Those Start, Stop and Complete nodes do not involve any method invocations
          in E-speak. Therefore, they do not have to be explicitly declared prior to their use in
          the arcs. -->
      <!-- Arcs of the composite service -->
      <Arc Type="Forward" Source="Start" Destination="Check Credit" />
      <Arc Type="Forward" Source="Start" Destination="Restaurant Selection" />
      <Arc Type="Forward" Source="Check Credit" Destination="Check Passed" />
      <Arc Type="Forward" Source="Check Passed" Destination="Stop" />
      <Arc Type="Forward" Source="Check Passed" Destination="And Join" />
      <Arc Type="Forward" Source="Restaurant Selection" Destination="And Join" />
      <Arc Type="Forward" Source="And Join" Destination="Wheel Delivery" />
      <Arc Type="Forward" Source="Wheel Delivery" Destination="Credit Card" />
      <Arc Type="Forward" Source="Credit Card" Destination="Complete" />
    </Service-Flow-Structure>
  </Meta-Model>
</Composite-Service>
```

**Appendix**